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Appln. No. : 09/838,905
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Enclosed
an electrical circuit coupled to said line sensor for calculating the amount of movement of said object on the basis of movement of the granular speck in said pattern with respect to a pixel interval of said granular speck pattern picked up by said line sensor and displaying the amount of movement calculated by said electrical circuit.

By
15. (Amended) The apparatus as defined in claim 14 and further including a light shield positioned in front of said line sensor.